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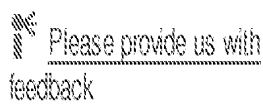All Publications
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1 Instituting integrated workflow development

John Ims

January 1999   **interactions** , Volume 6 Issue 1

Publisher: ACM ◆ Request Permissions

Full text available: 📄 Html (41.95 KB), 📄 Pdf (641.61 KB)   Additional Information: full citation, references, index terms

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2 Performance comparison of battery power consumption in wireless multiple access protocols

Jyh-Cheng Chen, Krishna M. Sivalingam, Prathima Agrawal

December 1999   **Wireless Networks** , Volume 5 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: 📄 Pdf (300.56 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 50,   Downloads (Overall): 892,   Citation Count: 15

3 Electronic document addressing: dealing with change

Helen Ashman

September 2000   **Computing Surveys (CSUR)** , Volume 32 Issue 3

Publisher: ACM ◆ Request Permissions

Full text available: 📄 Pdf (92.20 KB) Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 74,   Downloads (Overall): 1117,   Citation Count: 12

The management of electronic document collections is fundamentally different from the management of

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4 A global communication optimization technique based on data-flow analysis and linear algebra

M. Kandemir, P. Banerjee, A. Choudhary, J. Ramanujam, N. Shenoy

November 1999 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 21 Issue 6

Publisher: ACM Request Permissions

Full text available: Pdf (386.07 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 45,   Downloads (Overall): 425,   Citation Count: 10

Reducing communication overhead is extremely important in distributed-memory message-passing architectures. In this article, we present a technique to improve communication that considers data access patterns of the entire program. Our approach is based ...

Keywords: communication optimizations, data-flow analysis, distributed-memory machines, global optimizations, message vectorization, parallelism

5 Modeling statecharts and activitycharts as signal equations

J.-R. Beauvais, E. Rutten, T. Gautier, R. Houdebine, P. Le. Guernic, Y.-M. Tang

October 2001 **Transactions on Software Engineering and Methodology (TOSEM)** , Volume 10 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (299.20 KB)   Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 49,   Downloads (Overall): 794,   Citation Count: 1

The languages for modeling reactive systems are of different styles, like the imperative, state-based ones and the declarative, data-flow ones. They are adapted to different application domains. This paper, through the example of the languages Statecharts ...

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Andrew K. Wright, Robert Cartwright

January 1997 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 19 Issue 1

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Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 52,   Downloads (Overall): 491,   Citation Count: 19

A soft type system infers types for the procedures and data structures of dynamically typed programs. Like conventional static types, soft types express program invariants and thereby provide valuable information for program optimization ...

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Phillip B. Gibbons, Yossi Matias, Viswanath Poosala

September 2002   **Transactions on Database Systems (TODS)** , Volume 27 Issue 3

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Full text available: Pdf (472.82 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 69,   Downloads (Overall): 804,   Citation Count: 23

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Michael Wooldridge, Michael Fisher, Marc-Philippe Huget, Simon Parsons

July 2002   **AAMAS '02:** Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2

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Freddy Gabbay, Avi Mendelson

August 1998   **Transactions on Computer Systems (TOCS)** , Volume 16 Issue 3

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Full text available: Pdf (289.77 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 54,   Downloads (Overall): 600,   Citation Count: 9

This article presents an experimental and analytical study of value prediction and its impact on speculative execution in superscalar microprocessors. Value prediction is a new paradigm that suggests predicting outcome values of operations (at run-time ...

Keywords: speculative execution, stride value prediction, value prediction

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Jürgen Dix, Mirco Nanni, V. S. Subrahmanian

October 2000   **Transactions on Computational Logic (TOCL)** , Volume 1 Issue 2

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Full text available: Pdf (251.40 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 30,   Downloads (Overall): 525,   Citation Count: 13

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Keywords: logic programming, multi-agent reasoning, probabilistic reasoning, uncertainty

11 An Infrastructure for Web-Based Computer-Assisted Learning

Mike Joy, Boris Muzykantskii, Simon Rawles, Michael Evans

December 2002   **Journal on Educational Resources in Computing (JERIC)** , Volume 2 Issue 4

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We describe an initiative under way at Warwick to provide a technical foundation for computer-aided learning and computer-assisted assessment tools, which allows a rich dialogue sensitive to individual students' response patterns. The system distinguishes ...

Keywords: CAA, CAL, DTD, XML, markup

12 Schedulability-driven performance analysis of multiple mode embedded real-time systems

Youngsoo Shin, Daehong Kim, Kiyoung Choi

June 2000   **DAC '00:** Proceedings of the 37th Annual Design Automation Conference

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Full text available: Pdf (107.55 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 23,   Downloads (Overall): 292,   Citation Count: 7

Providing multiple modes to support dynamically changing environments, standards, and new services is prevalent in embedded systems, especially in mobile radio systems. Because such a system frequently contains time-constrained tasks, it is important ...

13 Parameter passing and control stack management in Prolog implementation revisited

Neng-Fa Zhou

November 1996 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 18 Issue 6

Publisher: ACM ◈ Request Permissions

Full text available: Pdf (280.75 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 54,   Downloads (Overall): 299,   Citation Count: 7

Parameter passing and control stack management are two of the crucial issues in Prolog implementation. In the Warren Abstract Machine (WAM), the most widely used abstract machine for Prolog implementation, arguments are passed through argument registers, ...

Keywords: abstract machine, prolog

14 Solving shape-analysis problems in languages with destructive updating

Mooly Sagiv, Thomas Reps, Reinhard Wilhelm

January 1998 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 20 Issue 1

Publisher: ACM ◈ Request Permissions

Full text available: Pdf (703.82 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

This article concerns the static analysis of programs that perform destructive updating on heap-allocated storage. We give an algorithm that uses finite shape graphs to approximate conservatively the possible "shapes" that heap-allocated ...

Keywords: abstract interpretation, alias analysis, dataflow analysis, destructive updating, pointer analysis, shape analysis, shape graphs, static analysis

15 Neural methods for dynamic branch prediction

Daniel A. Jiménez, Calvin Lin
November 2002   **Transactions on Computer Systems (TOCS)** , Volume 20 Issue 4
Publisher: ACM Request Permissions
Full text available: Pdf (540.67 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This article presents a new and highly accurate method for branch prediction. The key idea is to use one of the simplest possible neural methods, the perceptron, as an alternative to the commonly used two-bit counters. The source of our predictor's accuracy ...

Keywords: Branch prediction, neural networks

16 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor
May 2002   **Transactions on Internet Technology (TOIT)** , Volume 2 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (335.47 KB)   Additional Information: full citation, abstract, references, cited by, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, ...

Keywords: Network-based applications, REST, World Wide Web

17 On type systems for object-oriented database programming languages

Yuri Leontiev, M. Tamer Özsu, Duane Szafron

December 2002   **Computing Surveys (CSUR)** , Volume 34 Issue 4

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Full text available: Pdf (346.87 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 202,   Downloads (Overall): 2598,   Citation Count: 3

The concept of an object-oriented database programming language (OODBPL) is appealing because it
has the potential of combining the advantages of object orientation and database programming to yield
a powerful and universal programming language design. ...

Keywords: OODB, OODBPL, object-oriented database programming language, type checking, typing

18 Design issues for general-purpose adaptive hypermedia systems

Hongjing Wu, Erik de Kort, Paul De Bra

September 2001 **HYPERTEXT '01:** Proceedings of the 12th ACM conference on Hypertext and Hypermedia

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Full text available: Pdf (290.99 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 36,   Downloads (Overall): 582,   Citation Count: 11

A hypermedia application offers its users much freedom to navigate through a large hyperspace. For
authors finding a good compromise between offering navigational freedom and offering guidance is
difficult, especially in applications that target a broad ...

Keywords: active databases, adaptation rules, adaptive hypermedia, confluence, termination, user
modeling

19 Interprocedural pointer alias analysis

Michael Hind, Michael Burke, Paul Carini, Jong-Deok Choi

July 1999   **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 21 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (502.42 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 142,   Downloads (Overall): 1057,   Citation Count: 37

We present practical approximation methods for computing and representing interprocedural aliases for

a program written in a language that includes pointers, reference parameters, and recursion. We present the following contributions: (1) a framework ...

Keywords: interprocedural analysis, pointer aliasing, program analysis

20 A text-compression-based method for code size minimization in embedded systems

Stan Liao, Srinivas Devadas, Kurt Keutzer

January 1999 **Transactions on Design Automation of Electronic Systems (TODAES)** , Volume 4 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (184.16 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 33,   Downloads (Overall): 436,   Citation Count: 22

We address the problem of code-size minimization in VLSI systems with embedded DSP processors. Reducing code size reduces the production cost of embedded systemswe use data-compression methods to develop code-size minimization strategies. In our framework, ...
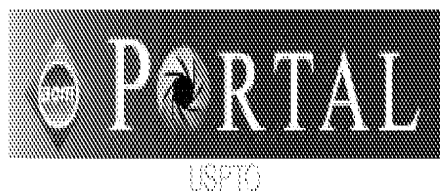
Keywords: code size optimization, compression

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Helen Ashman

September 2000   **Computing Surveys (CSUR)** , Volume 32 Issue 3

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Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 74,   Downloads (Overall): 1117,   Citation Count: 12

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November 1999 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 21 Issue 6

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Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 45,   Downloads (Overall): 425,   Citation Count: 10

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Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 49,   Downloads (Overall): 794,   Citation Count: 1

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Full text available: ▤ Pdf (130.73 KB)   Additional Information: full citation, abstract, references, cited by, index terms

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Jürgen Dix, Mirco Nanni, V. S. Subrahmanian

October 2000   **Transactions on Computational Logic (TOCL)** , Volume 1 Issue 2

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Full text available: Pdf (251.40 KB)   Additional Information: full citation, abstract, references, cited by, index terms

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Neng-Fa Zhou

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Daniel A. Jiménez, Calvin Lin

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Full text available: Pdf (540.67 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 121,   Downloads (Overall): 1546,   Citation Count: 23

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Keywords: Branch prediction, neural networks

13 On type systems for object-oriented database programming languages

Yuri Leontiev, M. Tamer Özsu, Duane Szafron

December 2002   **Computing Surveys (CSUR)** , Volume 34 Issue 4

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Full text available: Pdf (346.87 KB)   Additional Information: full citation, abstract, references, cited by, index terms

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14 Design issues for general-purpose adaptive hypermedia systems

Hongjing Wu, Erik de Kort, Paul De Bra

September 2001 **HYPERTEXT '01:** Proceedings of the 12th ACM conference on Hypertext and Hypermedia

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Full text available: Pdf (290.99 KB)   Additional Information: full citation, abstract, references, cited by, index terms

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15 Interprocedural pointer alias analysis

Michael Hind, Michael Burke, Paul Carini, Jong-Deok Choi

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Full text available: Pdf (502.42 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

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16 A text-compression-based method for code size minimization in embedded systems

Stan Liao, Srinivas Devadas, Kurt Keutzer

January 1999 **Transactions on Design Automation of Electronic Systems (TODAES)** , Volume 4 Issue 1

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We address the problem of code-size minimization in VLSI systems with embedded DSP processors. Reducing code size reduces the production cost of embedded systemswe use data-compression methods to develop code-size minimization strategies. In our framework, ...

Keywords: code size optimization, compression

17 A database model for object dynamics

M. P. Papazoglou, B. J. Krämer

May 1997   **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 6 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 Pdf (313.64 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 39,   Downloads (Overall): 376,   Citation Count: 8

To effectively model complex applications in which constantly changing situations can be represented, a database system must be able to support the runtime specification of structural and behavioral nuances for objects on an individual or group basis. ...

Keywords: Dynamic class hierarchy, Dynamic object re-classification, Object migration, Object role model, Object-oriented database systems

18 Search and strategies in OPL

Pascal Van Hentenryck, Laurent Perron, Jean-Francois Puget

October 2000   **Transactions on Computational Logic (TOCL)** , Volume 1 Issue 2

Publisher: ACM 🔷 Request Permissions

Full text available: 📄 Pdf (169.78 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 90,   Downloads (Overall): 688,   Citation Count: 9

OPL is a modeling language for mathematical programming and combinatorial optimization. It is the first language to combine high-level algebraic and set notations from mathematical modeling languages with a rich constraint language and the ability to ...

Keywords: combinatorial optimization, constraint programming, modeling languages, search

19 Clarifying the fundamentals of HTTP

Jeffery C. Mogul
May 2002   **WWW '02**: Proceedings of the 11th international conference on World Wide Web
Publisher: ACM

Full text available: Pdf (157.39 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 90,   Downloads (Overall): 916,   Citation Count: 2

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, ...

Keywords: HTTP, protocol design

20 Register tiling in nonrectangular iteration spaces

Marta Jiménez, José M. Llabería, Agustín Fernández
July 2002   **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 24 Issue 4
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Loop tiling is a well-known loop transformation generally used to expose coarse-grain parallelism and to exploit data reuse at the cache level. Tiling can also be used to exploit data reuse at the register level and to improve a program's ILP. However, ...

Keywords: Data reuse, locality, loop optimization, loop tiling, register level

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